

**MIXED EXECUTION STACK AND EXCEPTION HANDLING**

5

**ABSTRACT**

Systems and methods for implementing an execution stack which stores frames for functions written in multiple programming languages are provided. The frames for functions written in different programming languages may be interleaved on the same execution stack. A data block on the execution stack may be utilized to traverse the execution stack around a frame by storing a stack pointer and frame pointer to a previous frame. Additionally, exceptions may be propagated, with conversion if necessary, through frames on the execution stack that are written in different programming languages.

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08944335 . 100697